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Wright State University College of Engineering and Computer Science

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BITS & PCs

COLLEGE OF ENGINEERING AND COMPUTER SCIENCE

Jan 1995

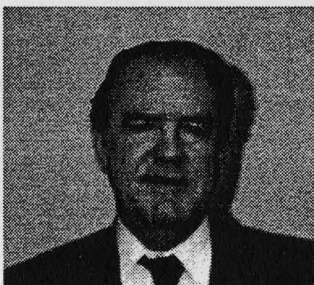
Wright State University Dayton, Ohio 45435

Vol. 11 No. 1

This newsletter is a monthly publication to inform students of the activities, news, opportunities and changes occurring in the College of Engineering and Computer Science. It reports on the achievements of faculty and students; changes in organization, policy and curriculum; scholarship and employment opportunities; and engineering and computer science student club activities. The newsletter is published by the College of Engineering and Computer Science and distributed to all engineering and computer science majors through their student mailboxes. The next issue will be published the week of February 1, 1995. Submit items to be included in this issue to the College of Engineering and Computer Science office, 405 Russ Engineering Center, by January 20, 1995.

COLLEGE APPOINTS NEW CHAIR

The College of Engineering and Computer Science is pleased to announce the appointment of Oscar N. Garcia, Ph.D. as AT&T Global Information Solutions Distinguished Professor of Computer Science and Engineering and Chair of the Department of Computer Science and Engineering. Before coming to WSU, Dr. Garcia most recently served as Director of the Interactive Systems Program in the Computer and Information Science and Engineering (CISE) Directorate of the National Science Foundation where



he had previously served as Director for Engineering in the Education and Human Resources (EHR) Directorate.

Prior to this, Dr. Garcia was full professor of electrical engineering and computer science at the George Washington University and has been chair of the Department of Computer Science and Engineering at the University of South Florida.

Dr. Garcia's recent research has dealt with topics in human-computer interaction, artificial intelligence, expert systems, and software engineering. He developed courses popular in the U.S. and Japan in artificial intelligence and expert systems. His areas of research are robust speech recognition, computer architecture and parallel processing, testing of digital circuits, and arithmetic coding theory.

He holds Fellow membership in the Institute of Electrical and Electronics Engineers (IEEE) and has received the Merwin Award of the Computer Society and the Embrson Award of the IEEE. He is also a Fellow of the American Association for the Advancement of Science.

Dr. Garcia received his B.S. and M.S. degrees from North Carolina State University and his Ph.D. from the University of Maryland. He is a past president of the IEEE Computer Society and has served on the IEEE Board of Directors.

Dr. Garcia looks forward to fostering strong cooperation among the academic computer science and engineering faculty and industrial and government communities.

**"ENGINEERS: Turning
Ideas Into Reality"®**

TEACHING EFFECTIVENESS AWARD

The Teaching Awards Committee is seeking your input for recognizing effective teaching in the College of Engineering and Computer Science.

Please fill out the form included in this issue and return it to room 158 RC.

7TH ANNUAL INDOOR RUBBER-BAND POWERED AIRCRAFT CONTEST



**Tuesday, February 28, 1995
9 A.M. – 12 noon
Student Union
Multipurpose Room**

The annual indoor rubber-band powered aircraft contest will again be featured during the 1995 National Engineers Week celebration.

This event is sponsored by the College of Engineering and Computer Science and the American Society of Mechanical Engineers (ASME). Prizes will be awarded for the 1st, 2nd, and 3rd place winners.

No entry fee required. For more information, contact:

Dr. Scott Thomas
873-5142 or 873-5040
Room 124 RC

The contest is open to all university, college, and high school students.



Ty D. Upp says..... "DON'T FORGET!! Rooms in the Russ Engineering Center are under surveillance."

Anyone damaging or stealing equipment will be prosecuted to the maximum extent of the law.

A \$500 reward will be paid to anyone providing information which leads to the successful arrest and prosecution of individual(s) damaging or stealing equipment.

THE BFGOODRICH COLLEGIATE INVENTORS PROGRAM

This program encourages and recognizes inventive problem solving, promotes successful student/advisor relationships and helps further an understanding of the U.S. Patent System.

The program is open to any student enrolled full time in a college or university in the U.S. Information packets are available in 405 RC.

Entries must be received by February 14, 1995.

WSU DAILY PLANNER

Daily planners designed specifically for the College of Engineering and Computer Science are now available.

These planners are for the 1994-95 academic year. They include club descriptions, academic calendar events, campus map, important phone numbers, and much, much more.

The Wright Engineering Council is offering them at the bargain price of \$5 each while the supply lasts. Available in room 163 RC.

DATABASE ASSISTS IN FINDING GRANT SOURCES

The University Libraries and Office of Research and Sponsored Programs now offer a CD-ROM product which provides information about grants and other funding sources.

The GRANTS database covers over 8,600 funding opportunities offered by private foundations, federal, state and local governments, and commercial organizations and associations.

The information corresponds to three print sources--

the *Directory of Research Grants*, the *Directory of Biomedical and Health Care Grants* and the *Directory of Grants in the Humanities*.

The GRANTS database can be accessed in the reference area of the Fordham Health Sciences Library.

Call Betty Sydelko, 873-2004.

HELP WANTED

LOGICON TECHNICAL SERVICES, INC. needs students (both male and female) for several human factors research projects. You must be between the ages of 18 and 35 and a U.S. citizen. Additional qualifications may have to be met. Compensation is at the rate of \$5 per hour. Location is close to WSU. For more information call Judy at 255-3432.

NATIONAL ENGINEERS WEEK February 19-25, 1995

REMEMBER

National Engineers Week is the only nationwide celebration of the engineering profession.

This celebration recognizes the importance of honoring the men and women who study and work to advance technology.

Engineers have shaped our high-tech world, and they will be in the front-lines as we move into the 21st Century.

JOIN THE CELEBRATION!

WESTEC 1995 CAD/CAM ROBOTICS CHALLENGE CONTEST

This is an opportunity to demonstrate your skill, creativity, and abilities using CAD/CAM while competing against other student teams from across the US and Canada.

There are two divisions for the competition.

Division One: Two year technical schools and community colleges (public or private school providing instruction at the associate degree or certificate level.)

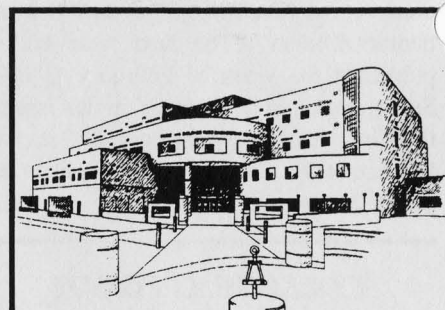
Division Two: Senior colleges and universities (public or private schools offering programs at or beyond the baccalaureate level..

The contest will be held on Monday, March 27, 1995 at the Los Angeles Convention Center, Los Angeles, CA.

For contest rules and requirements contact the college office at 405 RC.

A \$25 registration fee is required. The contest is sponsored by the Society of Manufacturing Engineers.

Deadline to register is February 1, 1995.



Fritz and Dolores Russ
Engineering Center

Bits & PCs College of Engineering and Computer Science Wright State University

Dean

James E. Brandeberry, Ph.D., P.E.

Editor and Staff Writer

Sharon Coates

Submit questions, articles and ideas to Editor, 405 Russ Engineering Center. The College of Engineering and Computer Science reserves the right to edit all material for publication.

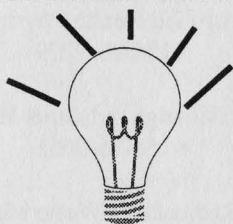
SUGGESTION FOR THE DEAN PROGRAM

The Student Suggestion Program was initiated by James E. Brandeberry, Dean of the College of Engineering and Computer Science.

The purpose of this program is to solicit suggestions from students enrolled in the college about ways to improve the facilities and/or programs for engineering and computer science students.

A suggestion box has been installed in front of the Dean's Office, room 405 RC. Forms are available in the student club room, department offices, and student lounge. The program runs from October 1 through April 15, annually. Give this some thought, and turn in that

BRIGHT IDEA!



Appropriate awards will be presented for these suggestions.

STUDENT RESEARCH POSITION

The Student Support Program has a position available at the Materials Lab at WPAFB. If you are looking for challenging research and a flexible work schedule in a professional setting, we want to hear from you.

DESCRIPTION 137 – The student shall: design and develop a self-directed control system for Chemical Vapor Deposition; implement control system on WL/MLLN CVD reactor; investigate, recommend and implement sensors required for control system; describe results of work in writing in form of paper or technical report and program demonstration.

REQUIREMENTS:

- Graduate student preferred
- C, C++ experience, knowledge of Labview and familiarity with graphical user interface design
- Degree seeking student in good standing
- U.S. Citizenship

Call SOCHE Student Support Program
513/259-1375

LUCY GARCIA OUTSTANDING WOMAN IN SCIENCE AND TECHNOLOGY

Each year *Hispanic Engineer* magazine honors some of the top Hispanic women in engineering by profiling them in their publication. This year, ten winners were selected from 3,000 applicants. WSU graduate student Lucy Garcia was selected for this honor.

Lucy Garcia graduated from WSU in 1991 with a B.S. degree in computer engineering and is currently pursuing a master's degree in the same field, also from WSU.

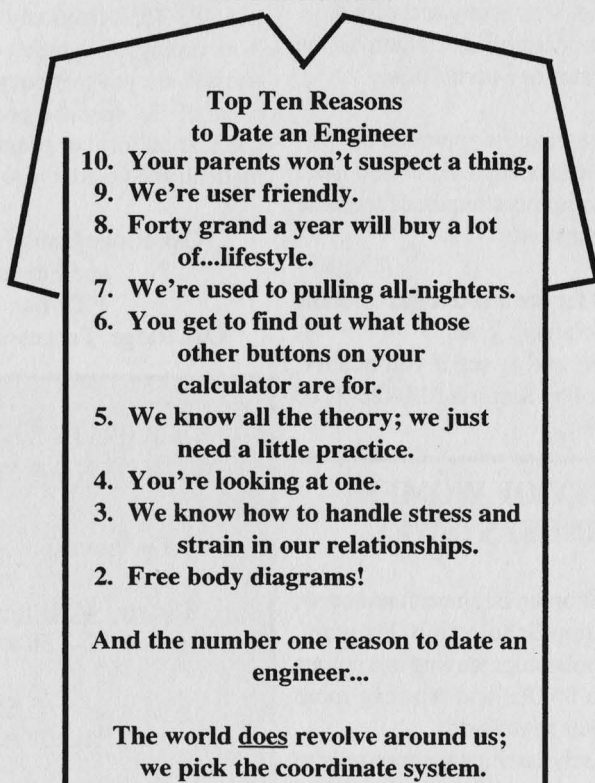
She held part and full-time jobs throughout her undergraduate years, while pursuing her studies. She took full advantage of cooperative educational programs to gain practical work experience, college credit and exposure outside of Dayton.

She co-oped at Specialty Steels Corporation (formerly ARMCO) in Baltimore, Md. She also worked at Digital Technology, Inc., SYSTRAN Corporation, and AM Graphics.

Her extra-curricula activities included – secretary for the WSU student chapter of the Association for Computing Machinery (ACM), president of the WSU chapter of the Ohio Society for Professional Engineers (OSPE) and the WSU chapter of the Society for Women Engineers (SWE).

Lucy is currently employed at Veda as a software engineer. Her responsibilities include the design and implementation of the Design Traceability Manager (DTM) and system administration of the Informix database management system.

T-Shirts (\$10) On Sale Room 163 RC



ENGINEERS
Turning Ideas
Into Reality

NATIONAL ENGINEERS WEEK
FEBRUARY 19-25, 1995

SCHOLARSHIPS and FELLOWSHIPS

CAREERS IN THE NUCLEAR POWER INDUSTRY

The National Academy for Nuclear Training awards scholarships to undergraduate college students who have demonstrated outstanding academic achievement and who are interested in pursuing careers in the U.S. nuclear power industry.

The Academy Educational Assistance Program is part of a nationwide effort to encourage students to consider careers in the nuclear power industry as well as to provide financial support to students studying subjects that prepare them for nuclear power industry employment.

Candidates must be U.S. citizens, full-time undergraduate students (minimum of 12 hours per semester or quarter) in one of the following accredited programs:

nuclear engineering; power generation
health physics; mechanical engineering;
electrical engineering; chemical engineering.

Candidates must have at least one and at the most three full academic years remaining before graduation. Minimum GPA of 3.0. **Deadline to apply: February 1, 1995.**

For further information, write to:

National Academy for Nuclear Training
Scholarship Program
700 Galleria Parkway
Atlanta, GA 30339-5957
1-800/828-5489

1995-96 GRADUATE ACADEMIC AND MINORITY FELLOWSHIP PROGRAM

The School of Graduate Studies is accepting applications for the 1995-96 Graduate Academic and Minority Fellowship Program.

This program awards fellowships to selected full-time and part-time students. The number of fellows selected is dependent upon the amount of monies annually allocated for the program. For 1994-95, the awards were \$4,090 each for full-time fellows and \$1,500 each for part-time fellows.

Cumulative grade point average (GPA) standards for academic and minority fellowship applicants are: Incoming graduate students must have achieved at least a 3.2 cumulative GPA at their undergraduate institution(s); continuing graduate students must have a cumulative graduate GPA of at least 3.4.

Finally, any students who will receive graduate assistantships, or who have been awarded another university-funded fellowship, will not be eligible to receive graduate academic or minority fellowships during the same time period. Also, employees of Wright State University are not eligible for the program.

The deadline for submitting completed applications to the School of Graduate Studies, 106 Oelman, is January 9, 1995.

U.S. AIR FORCE ATTN: Seniors Applying for Medical School

The U.S. Air Force has scholarships available for medical school. Some of the benefits are:

- Payment of full tuition and required educational fees at any accredited allopathic or osteopathic school in the United States or Puerto Rico.
- Reimbursement for approved books, supplies, microscope rental, and issue of small equipment, required for course of study pursued.
- A stipend for ten and one-half months each scholarship year.

For more details and to see if you qualify, contact Ssgt. Bobby Smith at 513/426-2116 today.

SOCIETY OF WOMEN ENGINEERS (SWE)

The Society of Women Engineers announces the 1995 Spring Scholarship Program. Thirty-three scholarships varying in amounts from \$1,000 to \$5,000 and totalling more than \$45,000 will be awarded.

All SWE scholarships are open only to women majoring in engineering or computer science in a college or university with

an ABET-accredited program and who will be in a specified year of study during the academic year the grant payment is made.

Applicants must have a GPA of 3.5/4.0 or above.

Scholarships are available for sophomore, junior, senior and graduate students. **Application deadline is February 1, 1995.**

ORISE GRADUATE FELLOWSHIP PROGRAMS

Fellowships are available in the following areas:

Applied Health Physics
615/576-9279

Global Change Industrial Hygiene
615/576-9655

Civilian Radioactive Waste Management
Magnetic Fusion Energy Technology
Magnetic Fusion Science
Nuclear Engineering/Health Physics
616/576-9558

Application Deadline: January 30, 1995.
FAX-on-demand can be utilized by dialing 615/483-7652 from any touch-tone phone. A recording will guide you through the call and will ask you to input your fax number. A copy of the specific program description/application form or program flier will automatically be faxed to you. Or you may write:

Oak Ridge Institute for Science
and Education
P.O. Box 117
Oak Ridge, Tennessee 37831-0117

CAREER SERVICES WORK SHOP SCHEDULE

For Egr. and CS Majors

Resume Writing for Seniors
Jan. 11 2-2:50 P.M. 145 RC

Job Search Strategies
Feb. 21 2-2:50 P.M. 145 RC

CALL 873-2556 for more information

PEOPLE TO PEOPLE INTERNATIONAL

This organization, in collaboration with the University of Missouri-Kansas City, annually selects and plans a series of issue oriented short-term overseas study programs which provide first hand exposure to policy makers as well as major issues and events.

Information is on file in the college office, room 405 RC.

OHIO ASSOCIATION OF CONSULTING ENGINEERS

Scholarship applications are available for the 1995-96 academic year. Applicants must be U.S. citizens pursuing a B.S. degree in an ABET-approved engineering program. Students must be entering their junior, senior, or fifth year, in the fall of 1995 to qualify. Students graduating in December 1995 are not eligible.

Applications are available in the college office, room 405 RC.

Application deadline is February 10, 1995.

ASSOCIATION OF DAM SAFETY

Scholarship applications are now being accepted by this organization for the 1995-96 school year.

Applicants must be enrolled at the junior or senior level in an accredited civil engineering program, or in a related field as determined by the association, and must demonstrate an interest in pursuing a career in hydraulics, hydrology or geotechnical disciplines, or in another discipline related to the design, construction and operation of dams.

Application information is available in the college office, room 405 RC.

Application deadline is January 17, 1995.

SOCHE STUDENT SUPPORT PROGRAM

This program provides stipends to undergraduate and graduate students while they engage in part-time research activities at the

Materials Directorate. Students benefit both academically and financially by working in a state-of-the art laboratory. Contact the following for more information:

Student Support Program
Southwestern Ohio Council for
Higher Education
Miami Valley Research Park
3171 Research Blvd., Suite 141
Dayton, Ohio 45420-4014
Phone 513/259-1375
FAX 513/259-1380

1995 REGENTS FELLOWSHIPS

The Ohio Student Aid Commission Graduate/Professional Fellowship Program recognizes the outstanding academic achievement of Ohio's most talented baccalaureate graduates, and encourages their pursuit of graduate or professional degrees in Ohio right after receiving their bachelor's degree.

The Regents Fellowship awards \$3,500 each year for two years to students with an outstanding academic record.

To be eligible, a student must:

have earned a B.S. degree at an Ohio college or university.

plan to enroll full-time to earn an advanced degree at an eligible Ohio graduate or graduate professional school within the same year of receiving B.S. degree.

be a U.S. citizen.

Students wanting to apply are responsible for having all official transcripts, letters of recommendation, and a copy of the score report and percentile ranking on an appropriate graduate or professional examination (GRE, GMAT, MCAT, etc.) sent to Regents Fellowship Program, c/o School of Graduate Studies, 106 Oelman Hall, Wright State University, Dayton, OH 45435.

Deadline to apply is February 10, 1995

For more information and application contact: the School of Graduate Studies, 106 Oelman Hall.

U.S. DEPARTMENT OF ENERGY

Many opportunities for fellowships for students and faculty are available through the U.S. Department of Energy. Among these are:

High Temperature Materials Laboratory (HTML) Faculty Fellowship Program

Requirement: Full-time academic staff member.

Location: Oak Ridge National Laboratory (TN)

Contact: Ernestine Friedman, 615/576-2358

High Temperature Materials Lab Grad Student Fellowships

Requirement: Ph.D. candidates at the university and/or at the HTML, TN.

Contact: Kathy Ketner, 615/576-3426

Advanced Industrial Concepts (AIC) Materials Science Program

Provides fellowships for students to complete master's level degree.

Participants: African American or Native American graduating seniors and graduate students who have not completed their first year.

Contact: Deborah McCleary

Fossil Energy Professional Internship Program.

Full-time and part-time opportunities for master's or doctoral students

Location: Pittsburgh Energy Technology Center (PA)

Contact: Kathy Ketner 615/576-3426

Graduate Student Research Participation Program

Participants: Graduate degree students

Contact: Kathy Ketner 615/576-3426

Laboratory Graduate Participation Program

Participants: Graduate students who have completed all degree requirements except thesis or dissertation research.

Contact: Kathy Ketner, 615/576-3426

REMINDER

WEC SAB Meeting

January 9, 1995, 7:30 P.M.

Check in 163RC for meeting location.

NATIONAL DEFENSE SCIENCE AND ENGINEERING GRADUATE (NDSEG) FELLOWSHIPS

The DoD Graduate Fellowship Programs are open only to applicants who are citizens or nationals of the U.S. These fellowships are for students at or near the beginning of their graduate study in science or engineering.

Applicants must receive their baccalaureate degrees by fall 1995.

Application deadline is January 18, 1995.

For application information contact the college office, 405 RC.

NATIONAL SOLAR OBSERVATORY SUMMER RESEARCH ASSISTANTS

The National Solar Observatory, a division of the National Optical Astronomy Observatories, announces the availability of a limited number of summer research assistantships for well-qualified graduate and undergraduate students.

The Observatory, with facilities in the Sacramento Mountains in south-central New Mexico and at Kitt Peak in south-central Arizona, has on-going research programs in solar physics, solar-terrestrial physics, solar-stellar physics and instrumentation. U.S. citizenship required.

Positions are full-time for 10 to 12 weeks between May and September. Salaries are based on academic standing and range from \$253 to \$327 per week for undergraduate students and up to \$441 per week for graduate students. Round-trip air fare is covered. For more information contact:

Dr. Stephen L. Keil
PL/GPSS

Sacramento Peak
P.O. Box 62
Sunspot, NM 88349
505/434-7039

Application available in college office, room 405 RC.

Application deadline is February 15, 1995.

It's a Fact.... Two out of five car crash deaths occur at speeds of 45 mph or less and have been known to occur at speeds as low as 12 mph.

NASA/OAI COLLABORATIVE AEROSPACE INTERNSHIP AND FELLOWSHIP PROGRAM

Twelve or fourteen week internships for students of science or engineering are available for a choice of starting dates during the summer of 1995 at NASA Lewis Research Center, Cleveland, Ohio. The internships are offered under the auspices of the NASA/OAI Collaborative Aerospace Internship and Fellowship Program, a collaborative undertaking by the Office of Educational Programs at the NASA Lewis Research Center and the Resident Programs at the Ohio Aerospace Institute (OAI)

Applicants must be U.S. citizens who are full-time students in good academic standing pursuing a B.S. or higher degree in a field of science or engineering. College-bound high school graduates or 2-year college students with demonstrable plans to pursue B.S. degrees are also eligible. Qualified minority and female students, as well as students with disabilities, are encouraged to apply. Students must have a GPA of 3.0.

For additional information contact:
NASA/OAI Internship/Fellowship
Program

Ohio Aerospace Institute
Department of
Workforce Enhancement
22800 Cedar Point Road
Cleveland, Ohio 44142
Attn: Sylvia Thompson

Telephone: 216/962-3170 X 5006

Application deadline: January 31, 1995

GRADUATE FELLOWSHIPS IN REHABILITATION ENGINEERING

Applications are being accepted for M.S. level graduate fellowships in the Rehabilitation Engineering Training Program for fall 1995.

These are one year fellowships (stipend and tuition) that start in September and go through August. Those receiving a fellowship may do their internship within a rehabilitation center in Dayton.

Upon satisfactory completion of the program, the M.S. in Engineering will be awarded. Those who receive a fellowship are expected to be employed for two years

for each academic year of support in an appropriate agency providing services to individuals with disabilities.

Prerequisites include a B.S. in Engineering, U.S. citizenship or permanent U.S. residency, and acceptance to graduate school. Prior knowledge of human anatomy and/or physiology is desirable, but can be picked up through additional courses while in the program.

Applications for a fellowship should be made by letter, explaining your desire to become a rehabilitation engineer, to Dr. Blair Rowley, Department of Biomedical and Human Factors Engineering, Room 247 RC.

Awards will be made on or about March 15, 1995. Direct any questions to Dr. Blair A. Rowley at 513/873-5073/5044.

NAVY ENGINEERING PROGRAMS

How many corporations are willing to offer you

- over \$1,450 per month pay and allowances
- 100% medical and dental coverage
- 30 days paid vacation each year
- opportunity for world travel....

while still in your junior and senior year?

Student benefits include:

- earn \$14,000 a year for up to two years while still a student to use any way you choose
- An additional \$4,000 bonus paid when you enter the program
- No drills, uniforms or summer obligations while in school

Not everyone has the opportunity, but **YOU** could, in the **NAVY'S NUCLEAR PROPULSION OFFICER CANDIDATE PROGRAM.**

The entrance requirements for a program of this caliber are high. You must be an engineering, math, physics or chemistry major with a GPA of 3.3 if you are a junior, or 3.0 for seniors. In addition, you must have completed one year of calculus and one year of calculus-based physics.

For all details and more information call toll free 1-800-527-8836.

SAE INTERNATIONAL

The Society of Automotive Engineers is sponsoring three students for enrollment in the 1995 Washington Internships for Students of Engineering (WISE) program.

This is a ten-week summer program in engineering and public policy and runs from June 5 to August 11, 1995.

Applications for WISE are sought from outstanding engineering students who have completed their junior year and who display evidence of leadership skills and interest in public policy. Minority and international students are encouraged to apply.

Students will spend 10 weeks in Washington, DC learning how engineers contribute to public policy decisions on complex technological matters. Through frequent meetings and discussions with government officials and other policy-makers, students examine a variety of public policy issues such as:

- How do government officials make decisions on issues involving complex scientific and technological matters?
- Whom do policy-makers rely on for help in understanding the technological aspects of their decisions?
- Are there conflicts between professional judgments and political realities.

The students will be under the guidance of a nationally prominent engineering professor and receive three credit hours. A stipend of \$2,800 is provided, along with a travel allowance, to cover living expenses during the 10-week program. Room and board must be paid out of the stipend, and all participants are housed in a dormitory on the campus of George Washington University. For application forms, contact:

WISE

Attn: Betsy Houston
1899 L St. NW, Suite 500
Washington, DC 20036
202/466-8744
FAX 202/833-3014

1995 NASA GUIDE TO GRADUATE SUPPORT

A booklet outlining general information about the 1995 NASA Graduate Student

Researchers Programs is on file in the college office, room 405 RC. Interested people may stop in and look at this book.

ARGONNE NATIONAL LABORATORY PROGRAM ANNOUNCEMENTS

All programs are sponsored by the US
Department of Energy

Nuclear Engineering Institute Summer 1995 Program

Opportunity to participate in a broad range of engineering activities directed toward the development of the liquid-metal reactor at Argonne's Idaho site. The Institute program combines a structured, tutorial program with actual engineering practice under the supervision of an Argonne staff member.

Eligibility: Full-time engineering or computer science student, US citizenship or permanent resident alien status, junior, senior or graduate student standing.

Application Deadline: February 1, 1995

Send inquiries to the Nuclear Engineering Institute at the address below.

Laboratory-Graduate Research Program

The program is for graduate students who wish to carry out their thesis research at Argonne under the co-sponsorship of an Argonne staff member and a faculty. The university sets the academic standards and awards the degree. Basic research programs are in physical and life sciences, mathematics, computer science and engineering.

Eligibility: GPA of at least 3.0, US citizen or permanent resident alien status, junior, senior or first-year graduate student standing.

Applications may be submitted any time during the year and an appointment may commence at any time.

Send inquiries to the Laboratory-Graduate Research Program at the address below.

Faculty Research Participation Program

The purpose of this program is to involve college/university faculty in the Department of Energy research programs conducted at Argonne, and stimulate continuing research collaboration between faculty and Argonne scientists.

Eligibility: US Citizen or permanent resident alien status, and a full-time faculty member of an accredited US college or university.

Appointment period: eleven or fewer weeks during the summer.

Application Deadline: January 10, 1995

Send inquiries to the Faculty Research Participation Program at the address below.

Faculty Research Leave at Argonne Program

Eligibility requirements for this program are the same as for Faculty Research Participation, but this is an appointment for the academic or calendar year.

Application Deadline: None

Send inquiries to the Faculty Research Leave at the address below.

Thesis-Parts Program/Guest Graduate Program

This program is for graduate students wishing to visit Argonne for periods from a few days to a few months, so that they may utilize special laboratory facilities or capabilities during the course of their thesis research.

Eligibility: GPA of at least 3.0. US citizen or permanent resident alien, junior, senior or first-year graduate student standing.

Send inquiries to Thesis-Parts Program/Guest Graduate Program at the address below.

Division of Educational Programs
Argonne National Laboratory
Argonne, Illinois 60439-4845
708/252-4579

Scholarships Continued → → → → →

Ohio Aerospace Institute (OAI) Undergraduate and Graduate Scholarship Announcement

The Ohio Space Grant Consortium, located at the Ohio Aerospace Institute, supports graduate fellowships, undergraduate scholarships and collaborative educational and research activities. To encourage U.S. citizens to pursue aerospace-related advanced education, the Consortium provides financial support through graduate fellowships and undergraduate scholarships. These scholarships are funded by the National Aeronautics and Space Administration (NASA) through its Space Grant College and Fellowship Program. Matching funds are provided by private industry and the Ohio Aerospace Institute.

Undergraduate Scholarships

Scholarships for full-time undergraduate students pursuing programs of study in aerospace-related engineering or science are a major component of the NASA Space Grant Program. Qualifying disciplines include:

Aeronautical Engineering
Aerospace Engineering
Applied or Engineering Physics
Chemical Engineering
Civil Engineering
Computer Engineering
Control Engineering
Electrical Engineering
Engineering Mechanics
Mechanical Engineering
Materials Science and Engineering
Systems Engineering

Rising junior and senior undergraduate students who are, or expect to be enrolled in one of the following participating universities by the fall 1995 term are encouraged to apply for a scholarship.

University of Akron
Case Western Reserve University
Central State University
University of Cincinnati
Cleveland State University
The University of Dayton
The Ohio State University
Ohio University
The University of Toledo
Wilberforce University
Wright State University

JUNIOR AND SENIOR SCHOLARSHIPS

To be considered for a NASA Space Grant/OAI Scholarship for the junior or senior year, a complete application package consisting of the following materials **must be submitted no later than January 28.**

- Scholarship application form
- Official college transcripts
- ACT and/or SAT scores (photocopy of official notice is acceptable)
- One page typewritten Project Proposal for an aerospace-related research project to be completed during the scholarship year. The proposal should include discussion of project goals and must be endorsed by the sponsoring faculty member. The Project Proposal will be a major factor in the selection process.
- Two Recommendation Forms, at least one being from a faculty member in applicant's department.

For application information on both undergraduate scholarships and graduate fellowships, contact Dr. George McBeath, room 405 RC, 513/873-5001.

Graduate Fellowships

To encourage U.S. citizens to pursue full-time graduate study in aerospace-related engineering and science, the Ohio Space Grant Consortium, located at the Ohio Aerospace Institute, offers graduate fellowships to students who have demonstrated ability and aptitude for advanced study in these areas. Fellowships are funded by the National Aeronautics and Space Administration (NASA) through its Space Grant College and Fellowship Program and by NASA Lewis Research Center. Matching funds are provided by private industry and the Ohio Aerospace Institute. Fellowships are competitively awarded to students in master's and doctoral programs at the following participating universities.

University of Akron • Case Western Reserve University • University of Cincinnati
Cleveland State University • The University of Dayton • The Ohio State University
Ohio University • The University of Toledo
Wright State University

Disciplines appropriate to this program include:

Aerospace Engineering • Aeronautical Engineering • Chemical Engineering
Civil Engineering • Computer Engineering • Control Engineering
Electrical Engineering • Engineering Mechanics • Materials Science and Engineering
Mechanical Engineering • Systems Engineering

Research Areas of Interest:

Aeronautical Applications • Aeropropulsion
Computational Fluid Dynamics • Computational Sciences
Electronics and Communications • Materials Space Propulsion
Space Power • Space Science

FACULTY FACTS

Oscar N. Garcia, Ph.D., Chair, (CSE), has been honored by receiving the 1994 IEEE Service Award. This award recognizes Dr. Garcia's efforts in promoting the goals of the IEEE through outstanding contributions to its work.

Ping He, Ph.D. (BHE) presented a paper entitled, "A PC-based Ultrasound Scanning System for Imaging a Residual Limb" in the 16th Annual International Conference at the IEEE Engineering in Medicine and Biology Society on November 5, Baltimore, MD.

He was also invited by the "Council of Scientific Information" of India to write a review paper for a new book entitled, *Current Topics in Acoustical Research*.

Lang Hong, Ph.D., (EE) has been elected as a senior member of the Institute of Electrical and Electronics Engineers (IEEE).

Giorgio McBeath, D. Eng., IMBA, P.E., Assistant Dean, presented a workshop on environmental management, December 1-2, 1994, to prepare graduates for national registration as a Registered Environmental Manager (REM).

He also presented a paper, with Bahman Ghorashi and Jorge Gatica from Cleveland State University, on "Low NO_x Combustors: Design Improvements and Alterations" at NASA Lewis Research Center's Propulsion Systems Division on November 22, 1994.

Raj Pujara, Ph.D., (EE) published the following:

"On the Stability of a Segment of Polynomials," IEEE Transactions on Circuits and Systems, Vol. 41, No. 2, December 1994 (co-author B.S. Bollepalli).

"A Robustly Stable Preliminary Control Systems Design for the YF-16 CCV Aircraft," IEEE Transactions on Aerospace and Electronic Systems, Vol. 31, No. 1, Jan., 1995.

SPRING QUARTER OFFERING ATTENTION: BME, HFE, AND ME STUDENTS

Electronic Circuits & Devices and Laboratory have been added to the spring quarter, 1995 course offerings. Scheduled times are:

EE 401	01	11 A.M. - 12:50 P.M.	MW
EE 402	01	1 - 3:50 P.M.	F
	02	7 - 9:50 P.M.	W

The laboratory and lecture are to be taken concurrently as laboratory material is integrated with the lecture meeting times.

ORDER OF THE ENGINEER

The Order of the Engineer Ring Ceremony was held on December 2 in the Russ Engineering Center.

This organization seeks to promote professionalism among engineers and graduates of accredited engineering and college programs. Candidates who were inducted included the following graduating seniors:

Gary L. Bertke
Jay Blair
Jill M. Bornhorst
James T. Broaddus
David A. Broerman
Timothy W. Buckman
Andrew S. Chaboty
Michael Lee Dunn
James Clinton Glover
Todd S. Grimes
Cathleen M. Gustafson
Marc R. Kogge
Pamela F. Lloyd
Lynn D. Sloppy
Frank E. Staigl III
James W. Stubbs

The following alumni were also inducted at this ceremony:

Raj P. Malhotra
Richard L. Taylor

AAAS FELLOWSHIPS FOR SCIENTISTS AND ENGINEERS

These fellowships are designed to provide a unique public policy learning experience; to demonstrate the value of the interface of government, policy, and science; and to make practical contributions to the more effective use of scientific and technical knowledge in government.

Candidates should be postdoctoral to midcareer scientists or engineers. Prospective Fellows must demonstrate exceptional competence in some area of science or engineering; be cognizant of many matters in nonscientific area; demonstrate sensitivity toward political and social issues; and, have a strong interest and/or some experience in applying knowledge toward the solution of societal problems.

Applications are invited from candidates in any physical, biological, or social science or any field of engineering. **The deadline for all programs is January 15, 1995.** For applications, write:

American Association for the
Advancement of
Science/Fellowship Programs
1333 H. Street, NW
Washington, DC 20005
Tel. 202/326-6600 FAX 202/289-4950

Happy New Year

ENGINEERING DESIGN CLINICS

The Department of Mechanical and Materials Engineering is offering opportunities to students to participate in two design clinics beginning winter quarter. The clinics will run through the summer quarter.

PROJECTS

Copeland Corporation - Scroll Compressor Shutdown/Restart

Faculty Advisor - Joe Slater

This project will investigate ways to prevent scroll compressors from being forced backward and/or running backward by discharge pressures after shutdown and/or restart.

Globe Products - Wire Winding Control

Faculty Advisor - Shane Hong

This project will investigate control of wire tension during the high speed winding of electric motor armatures.

To participate in the clinic program, you must work as part of a team. The team will have two advisors – one from the faculty and one from the sponsoring company. You will enroll for four credit hours each quarter (Winter '95, Spring '95, Summer '95) for which you'll receive 12 hours credit toward graduation.

In addition, to participate, you must meet the following minimum requirements:

- ◆ you need to have completed at least 140 credit hours in your program of study prior to the start of winter quarter, or plan to graduate prior to June '96.
- ◆ you must have a GPA of at least 2.5.
- ◆ you must not be graduating before August '95.

If you are interested in participating in these clinics, please contact the faculty advisor or Dr. Richard Bethke, Chair of the Department of Mechanical and Materials Engineering by November 10 or as soon as possible. The number of students who may participate is limited!

STUDY JAPANESE

In an increasingly competitive economic environment, Americans must learn more about a critical Japanese competitive edge: high-tech research and development, rapid product development, efficient manufacturing, and other aspects of technology management. In order to do this, the U.S. needs to produce more engineers, scientists and managers knowledgeable about Japanese technology, manufacturing, corporate strategy, and management systems. Ideally, U.S. corporations and institutions will have a corps of researchers and managers proficient in Japanese language and knowledgeable about Japan in general. In order to

support these goals, the Japan Technology Management Program offers fellowships to students who combine the study of Japan with the study of engineering, science, or the management of technology.

Fellowships come in two types: summer language fellowships available to students from any institution, and academic year fellowships available to University of Michigan graduate students only. **Deadline for application for a fellowship is January 30, 1995.** For more information, contact:

The Japan Technology
Management Program
300 Lane Hall, The University of Michigan
Ann Arbor, MI 48109-1290
Tel: 313/763-2349

JOB OPPORTUNITY

Looking for a graduate student (i.e. must have a B.S., prefer engineering or computer science).

This position may require a security clearance. The position will begin immediately and last through May '95. The work schedule will be 20 hours/week, but is flexible to accommodate your schedules. Knowledge of windows-based programming is essential. Knowledge of Asymetrix Toolbook is a plus \$16-\$18/hour.

Contact: Steve Harper 255-5497
SHARPER@DESIRE.WRIGHT.EDU
UDRI
300 College Park
Dayton OH 45469-0157

WANTED COMPUTER PROFESSIONALS

Digital Concepts, Inc., a systems engineering firm supporting government and private industry clients, is seeking **Programmers/Analysts, System Hardware and Software Engineers, Open Systems Engineers, and Information and Database Engineers** with experience in any of the following areas for positions in the Dayton and Cincinnati, OH areas:

- Business Process Modeling (BPM), data mapping & analysis
- COBOL, MVS, JCL
- IBM large scale systems environment
- Client-Server UNIX environment
- CASE tools (Cadre Teamwork, TI's IEF)
- PL/1, Fortran, Ada or C programming languages
- DBMS (Datacom/DB, DB2, Paradox, ORACLE, or IMS DB/DC)
- 4GL (Powerbuilder, PacBase, Focus, Ideal)
- All positions require a bachelor degree
- Masters degree a plus
- Prior DoD experience a plus

DCI offers a competitive salary and benefit package. Submit resume and salary requirements to:

Digital Concepts, Inc.
2875 Presidential Drive, Suite 100
Fairborn, OH 45324
Fax 513/429-7183

WRIGHT STATE UNIVERSITY
College of Engineering and Computer Science
Teaching Effectiveness Award
1994–1995
Student Response Form

The Teaching Awards Committee is collecting data to support recognition of effective teaching in the College of Engineering and Computer Science. These data are being gathered from faculty, students, and alumni. May we have your nomination and supporting comments for the full-time faculty member who is the most effective teacher? You may nominate more than one faculty member by submitting additional nomination forms. Please do not nominate a faculty member more than once.

Nomination: _____

Please comment on the effectiveness of this teacher both in and out of the classroom, including how he/she made a difference to you.

Signature: _____

Date: _____

Please deposit completed nomination form in the ballot box located in the Student Study Lounge, room 158 RC.

Wright State University
College of Engineering and Computer Science
Faculty Listing

**College of Engineering and
Computer Science**

Brandeberry, James E., Dean
Finkelstein, Leo

**Department of Biomedical and
Human Factors Engineering**

Cacioppo, Anthony J., Chair
Gallimore, Jennie
Hangartner, Thomas N.
He, Ping
Narayanan, S.
Phillips, Chandler A.
Reynolds, David B.
Rowley, Blair A.

**Department of Computer Science
and Engineering**

Asthaigiri, Chandra
Awwal, A.A.S.
Chen, Jer-Sen
Chen, Philip
Chung, Soon Myoung
d'Auriol, Brian
Daniel, Johns
Davidson, Daniel
Davis, Henry W.
Fernando, Joseph
Jean, Jack
Mateti, Prabhaker
Meyer, Karen
Prasad, T.K.
Rizki, Mateen
Ross, Charles B.
Shock, Robert C.
Spiegel, Daniel
Stucki, David
Sudkamp, Thomas A.

Department of Electrical Engineering

Chen, Henry
Garber, Fred
Hannen, Russell A.
Hong, Lang
Kazimierczuk, Marian K.
McCormick, William S.
Misra, Pradeep
Naishadham, Krishna
Pujara, Rai
Rattan, Kuldip
Shaw, Arnab K.
Shenoi, Belle
Shiu, Greg (currently on leave of absence)
Siferd, Raymond, Chair
Spalding, George R.
Wood, David
Xue, Kefu

**Department of Mechanical
and Materials Engineering**

Bethke, Richard, Chair
Cornelius, Kenneth
Dadras, Parviz
Faghri, Amir (currently on leave of absence)
Grandhi, Ramana
Hankey, Wilbur L.
Hong, Shane Y.
Lieh, Junghsen
Lipsitt, Harry
Mehrotra, Gopal
Slater, Joseph
Srinivasan, Raghavan
Thomas, J.F., Jr.
Thomas, Scott
Weiss, Isaac

January 1995

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Happy New Year 1	Offices Closed 2	Winter Quarter Classes Begin 3	4	5	6	7
8	Meeting - WEC SAB 7:30 PM See 163 RC for Location 9	70% Refund of Fees Begins 10	11	12	13	14
15	Martin Luther King Day Offices Closed No CLASSES 16	17	Mexican Fiesta! Last Day for 70% Refund of Fees 18	19	Last Day to Drop Class Without a Grade of "W" 20	21
22	23	24	25	26	27	28
29	30	31				

February 1995

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1	2	Last Day for all but Freshmen to Drop Class with Grade of "W" 3	Senior Spring Registration Begins 4
5	6	7	8	9	10	11 Junior Spring Registration Begins
12	13	14	15	TEAMS Testing 16	17	18 Sophomore Spring Registration Begins
19	Russ Center OPENHOUSE 2-7 PM 20	21	22	23	Last day for Freshmen to Drop Class with "W" Grade 24	25 Freshmen Spring Registration Begins
26	27	Airplane Contest 9 AM-noon Student U 28				

ATTENTION HIGH SCHOOL STUDENTS

1995 Shadowing Program

You can spend a day on the campus of Wright State University and get a taste of what it's like to be a WSU engineering or computer science student. You will be paired with someone in the college and go with that person to classes, labs, meetings, and do whatever a WSU engineering/computer science student does during the day.

- See what college classes are like
- See the labs of the Russ Engineering Center
- Get a personalized campus tour
- Visit our new Student Union
- See the residence halls
- Have a GREAT time

Experience the **SHADOWING PROGRAM** sponsored by the Wright Engineering Council.
Call 513/873-5001 today to sign up.

The College of Engineering and Computer Science welcomes inquiries from prospective high school students. For information about our engineering and computer science programs, or to arrange for a tour of the Russ Engineering Center, call Dick Rathbun, Assistant Dean, 513/873-5001.

Russ Engineering Center Open House
Monday, February 20, 1995
2-7 P.M.



**Wright State
University**

College of Engineering and
Computer Science
Dayton, Ohio 45435

Office of the Dean



ENGINEERS
Turning Ideas
Into Reality

NATIONAL ENGINEERS WEEK
FEBRUARY 19-25, 1995